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S	BUILDING CODE INFORMATION: THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC 2009). AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ANSI/ASCE 7-05, 2005. AMERICAN WELDING SOCIETY: STRUCTURAL WELDING CODE - SHEET STEEL, 2nd ED., ANSI/AWS D1.3, 2008.	GENERAL NOTES: 1. COPYRIGHT: THE CONTRACTOR SHALL VERIFY EXISTING FINISH GRADE CONDITION SHALL BE REPORTED TO DOWNEA TO ALL DESIGNS AND DRAWINGS
R	<u>1.0 DESIGN ASSUMPTIONS</u> THE CITY OF PORTLAND PERMITTING AND INSPECTIONS DEPARTMENT MUST REVIEW AND APPROVE THE FOLLOWING DESIGN ASSUMPTIONS BEFORE THE SHOP DRAWINGS MAY BE USED. ALL CONNECTIONS SHALL BE COMPLETE AS PER THE PLANS AND SPECIFICATIONS AT THE TIME OF INSTALLATION. <u>STRUCTURAL DESIGN CRITERIA:</u>	PLLC. REPRODUCTION OR USE FO STRUCTURAL CONSULTANTS, PLLC 2. <u>LIABILITY / DISCLAIMER</u> ; WHILE GREAT EFFORT HAS BEEN COMPLETE AND ACCURATE, DOW FOR ANY BUILDING CONSTRUCTED DOWNEAST STRUCTURAL CONSULT
P	 DESIGN LOADS: i. DESIGN WIND: LOCATION: PORTLAND, MAINE WIND LOAD (PER ASCE 2005 SECTION 6.0 COMPONENTS AND CLADDING): OCCUPANCY CATEGORY II BASIC WIND SPEED V = 100 MPH WIND EXPOSURE FACTOR = B IMPORTANCE FACTOR I = 1.0 DEFLECTION CRITERIA: L/360 OF THE WALL FRAMING LENGTH. 	THE OWNER/BUILDER TO PERFORM INCLUDE BUT ARE NOT LIMITED TO A. VERIFY ALL DIMENSIONS B. REVIEW DEMOLITION PROC DETERMINE POSSIBLE ST C. VERIFY ACTUAL SITE COM BY THE BUILDER PRIOR
-	ii. ROOF LIVE LOAD: SNOW LOAD: 42 PSF (GROUND SNOW LOAD 50 PSF) PLUS SNOW DRIFT LOADING	BE UNDERTAKEN WITHOU
N	WHERE APPLICABLE (PER ASCE 2005 SECTION 7.0) SNOW EXPOSURE FACTOR (Ce) = 1.0 THERMAL FACTOR (Ct) = 1.2 IMPORTANCE FACTOR (I) = 1.0	 ALL CONCRETE WORK SHALL CON CONCRETE COMPRESSIVE STRENG FOOTINGS, 4000 PSI AT SLABS ALL CONCRETE WITH THE EXCEPTION
-	WIND LOADS - COMPONENTS & CLADDINGWALLS (- ZONE 4)WALLS (- ZONE 5)P = +18.3 PSF / -20.0 PSFP = +18.3 PSF / -24.5 PSF	4. CONCRETE SHALL NOT BE PLACE 5. REINFORCING BARS SHALL CONFO
М	<u>WIND LOADS – MWFRS</u> ROOF (WIND NORMAL TO RIDGE) ROOF (WIND PARALLEL TO RIDGE)	AND FABRICATED IN ACCORDAN WITH ACI-318. 6. SPLICES OF REINFORCING BARS
-	P = +5.1 PSF / -10.7 PSF $P = -14.7 PSF$ $WALL (WIND NORMAL TO RIDGE)$ $P = +10.6 PSF / -12.0 PSF$ $WALL (WIND PARALLEL TO RIDGE)$ $P = + 10.6 PSF / -12.0 PSF$ $P = + 10.6 PSF / -12.0 PSF$ $WALL (WIND PARALLEL TO RIDGE)$ $P = + 10.6 PSF / -12.0 PSF$	BE 6" MINIMUM. 7. ANCHOR BOLTS SHALL CONFORM 8. CONCRETE COVER OVER REINFOR CONCRETE CAST AGAINST EART
L	MEMBRANE ROOF DEAD LOAD= 0.50 PSF 60 MIL EPDM ROOF MEMBRANE1.5 PSF $\frac{1}{2}$ " CDX PLYWOOD SHEATHING2.5 PSF WOOD 2x RAFTERS AT 16" OC2.2 PSF $\frac{1}{2}$ " GWB CEILING1.0 PSF MISCELLANEOUS	CONCRETE EXPOSED TO EARTH
ĸ	$W_{T} = 7.7 \text{ USE 10.0 PSF}$ $FLOOR \text{DEAD LOAD} = 1.5 \text{ PSF} 2x \text{WOOD FLOOR DECKING}$ $2.0 \text{PSF} \text{WOOD JOIST AT 16" OC}$ $1.5 \text{PSF} \text{MISCELLANEOUS}$	
	W _T = 5.0 PSF <u>TABLE 1607.1: MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (IBC 2009 SECTION 1607)</u>	
_	MULTIFAMILY DWELLINGS: PRIVATE ROOMS AND CORRIDORS SERVING THEM INCLUDING EGRESS STAIRS AND DECKS: <u>LIVE LOAD = 40 PSF</u> DEFLECTION CRITERIA:	
J	EXTERIOR WALLS = $L/360$ ROOF RAFTERS = $L/240$ LIVE LOAD FLOOR JOISTS = $L/360$ LIVE LOAD	
-	<u>STRUCTURAL DESIGN CRITERIA:</u> 1. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE	
н	PROCEEDING WITH THE AFFECTED PART OF THE WORK. 2. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE	
_	BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE SAFETY OF THE STRUCTURE AND PERSONNEL DURING ERECTION. THIS INCLUDES THE ADDITION OF THE NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.	
G	3. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.	
-	WOOD FRAMING NOTES: 1. STRUCTURAL LUMBER: ALL WOOD EXPOSED TO WEATHER SHALL BE PRESSURE TREATED BY THE	
F	FOLLOWING METHODS: ACQ, CA AND MCQ PRESSURE TREATED SOUTHERN PINE NO 2 DENSE OR BETTER LUMBER.	
1	Fb = 1100 PSI $Fv = 565 PSI$ $Fc = 1400 PSI$ $E = 1600000 PSI$	
-	$\frac{\text{NLGA GRADING RULES AGENCY / SPRUCE-PINE-FIR No. 2 OR BETTER}{Fb = 875 PSI}$ $Fc = 425 PSI$ $Fc = 1400000 PSI$	
E	STRUCTURAL COMPOSITE LUMBER: LVL Fb = 3100 PSI 2. DESIGN CODE: THIS BUILDING IS DESIGNED TO COMPLY WITH THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE, IBC 2009.	
_	3. FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF THE INTERNATIONAL BUILDING CODE IBC 2009	
	UNLESS SHOWN OTHERWISE ON THE DRAWINGS. 4. SHEATHING: APA RATED 'EXPOSURE 1' PLYWOOD OR COMPOSITE PANEL:	
D	LOCATIONTHICKNESSSPANRATINGEDGENAILINGFIELDNAILINGROOFSHEATHING:16/208dAT6" OC8dAT12" OCWALLSHEATHING:16/08dAT6" OC8dAT12" OCFLOORSHEATHING:34-INCH48/248dAT6" OC8dAT12" OC	
-	5. SPIKE TOGETHER ALL FRAMING MEMBERS WHICH ARE BUILT-UP USING MULTIPLE 2x LUMBER.	
С	6. PROVIDE PRESSURE TREATED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER.	
_	7. ROOF SHEATHING: 5/8" APA RATED SHEATHING, EXTERIOR OR STRUCTURAL I OR II RATED SHEATHING, SPAN RATING 40/20. INSTALL SHEETS WITH FACE GRAIN DIRECTION PERPENDICULAR TO SUPPORTING MEMBERS.	
В	8. WALL SHEATHING: 1/2" APA RATED SHEATHING, EXTERIOR OR STRUCTURAL I OR II RATED SHEATHING, SPAN RATING 32/16. INSTALL SHEETS WITH FACE GRAIN DIRECTION PERPENDICULAR TO SUPPORTING MEMBERS.	
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	NDTES TYPICAL NOTES	NDTES NTS TYPICAL

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RETE WITH THE EXCEPTION OF INTERIOR FLOOR SLABS SHALL BE AIR ENTRAINED. SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND. RICATED IN ACCORDANCE TO ACI-315 LATEST EDITION, AND PLACED IN ACCORDANCE -318. REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI-318. SPLICES OF WWF SHALL INIMUM.

- COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS: E CAST AGAINST EARTH E EXPOSED TO EARTH OR WEATHER
- E NOT EXPOSED TO EARTH OR WEATHER = 3/4"

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RACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS INCLUDING VERIFYING FINISH GRADE CONDITIONS. DO NOT SCALE THE DRAWING-ANY ERROR OR OMISSIONS REPORTED TO DOWNEAST STRUCTURAL CONSULTANTS WITHOUT DELAY. THE COPYRIGHTS ESIGNS AND DRAWINGS ARE THE PROPERTY OF DOWNEAST STRUCTURAL CONSULTANTS, PRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY DOWNEAST RAL CONSULTANTS, PLLC IS PROHIBITED.

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EAT EFFORT HAS BEEN EXERTED TO INSURE THAT THESE CONSTRUCTION DRAWINGS ARE AND ACCURATE, DOWNEAST STRUCTURAL CONSULTANTS, PLLC, ASSUMES NO LIABILITY BUILDING CONSTRUCTED FROM THIS PLAN. ALL CONSTRUCTION DOCUMENTS PROVIDED BY STRUCTURAL CONSULTANTS, PLLC ARE PROVIDED AS-IS. IT IS THE RESPONSIBILITY OF R/BUILDER TO PERFORM BUILDING REVIEWS BEFORE BEGINNING CONSTRUCTION. THESE BUT ARE NOT LIMITED TO THE FOLLOWING:

EVIEW DEMOLITION PROCEDURES (WHERE REQUIRED) WITH A DESIGN PROFESSIONAL TO ETERMINE POSSIBLE STRUCTURAL INSTABILITIES AND DEVELOP A DEMOLITION PLAN. ERIFY ACTUAL SITE CONDITIONS. ANY DISCREPANCIES ON THE PLANS MUST BE RESOLVED BY THE BUILDER PRIOR TO CONSTRUCTION. CONSTRUCTION OF ANY HOME SHOULD NOT UNDERTAKEN WITHOUT THE ASSISTANCE OF A QUALIFIED BUILDING PROFESSIONAL.

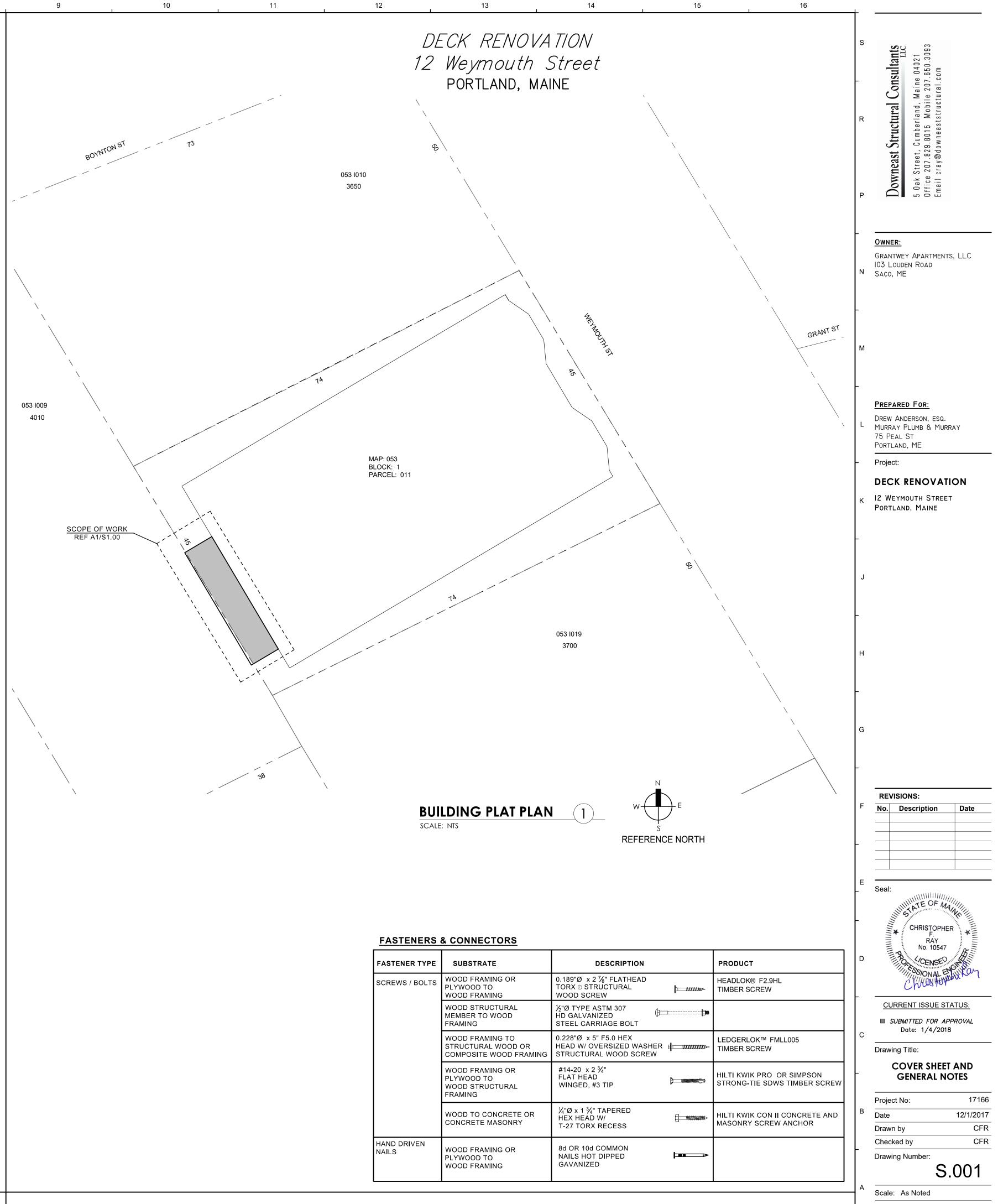
RETE WORK SHALL CONFORM TO ACI-318.

COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3500 PSI AT FOUNDATION WALLS AND , 4000 PSI AT SLABS, MAXIMUM SIZE AGGREGATE SHALL BE 3/4".

NG BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS SHALL BE DETAILED

BOLTS SHALL CONFORM TO ASTM F1554 UNLESS OTHERWISE NOTED.

= 3" = 2" FOR #6 AND LARGER = 1-3/4" FOR #5 AND SMALLER



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